



Gulf of Mexico Harmful Algal Bloom Bulletin

9 June 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: June 6, 2005

Conditions: A harmful algal bloom has been identified in Manatee and Sarasota counties. Patchy low to moderate impacts possible along the coast and patchy moderate impacts possible in bayside vicinities through the weekend.

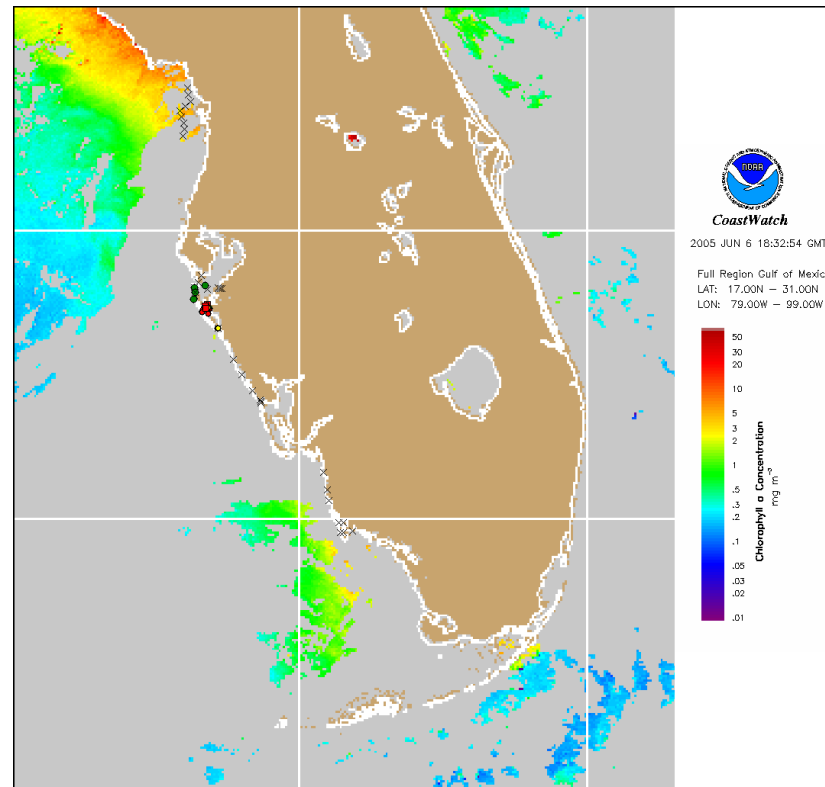
Analysis: The bloom persists in patches near the coast and in the bays. Since the last bulletin exact locations and extents have been obscured by clouds. Chlorophyll levels west of Bradenton, at 27°27'N 82°47'W, were over 10 $\mu\text{g/L}$ on June 5. Chlorophyll levels at 26°39'N 82°20'W, southwest of Boca Grande, were over 6 $\mu\text{g/L}$. Sampling last week indicated medium to high concentrations of *Karenia Brevis* with very low to low concentrations along the coast from Mullet Key to Venice. No sampling available since June 3. Strong easterly winds may increase impacts to coastal beaches through the weekend.

Discolored brown water was reported 5 to 11 miles west of Gordon Pass. Satellite imagery from June 5 identifies a chlorophyll feature extending from 26° 2'N 81° 53'W to 25 35'N 81° 39'W. Chlorophyll was approximately 7 $\mu\text{g/l}$ at 25° 43'N 81° 53'W, south of Cape Romano, at the time of imagery. Southerly movement of the bloom may have been possible since June 5. Precise northerly and southerly extents have been obscured by clouds. Samples on June 6 from Lely Barefoot Beach to Marco Island indicate no *Karenia brevis*. Elevated chlorophyll is likely nonharmful algae.

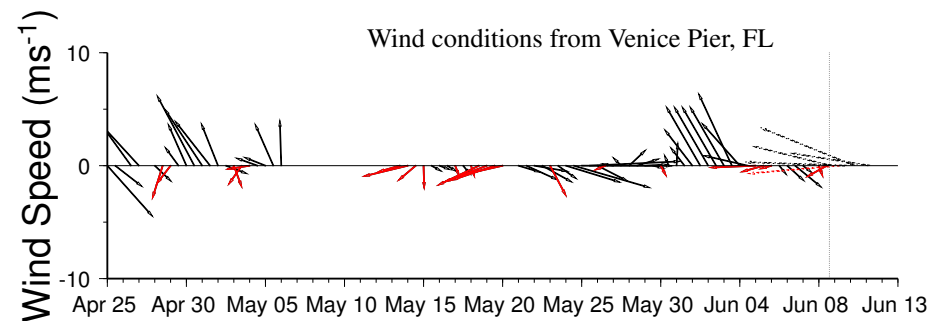
-Keller, Stolz, Fenstermacher

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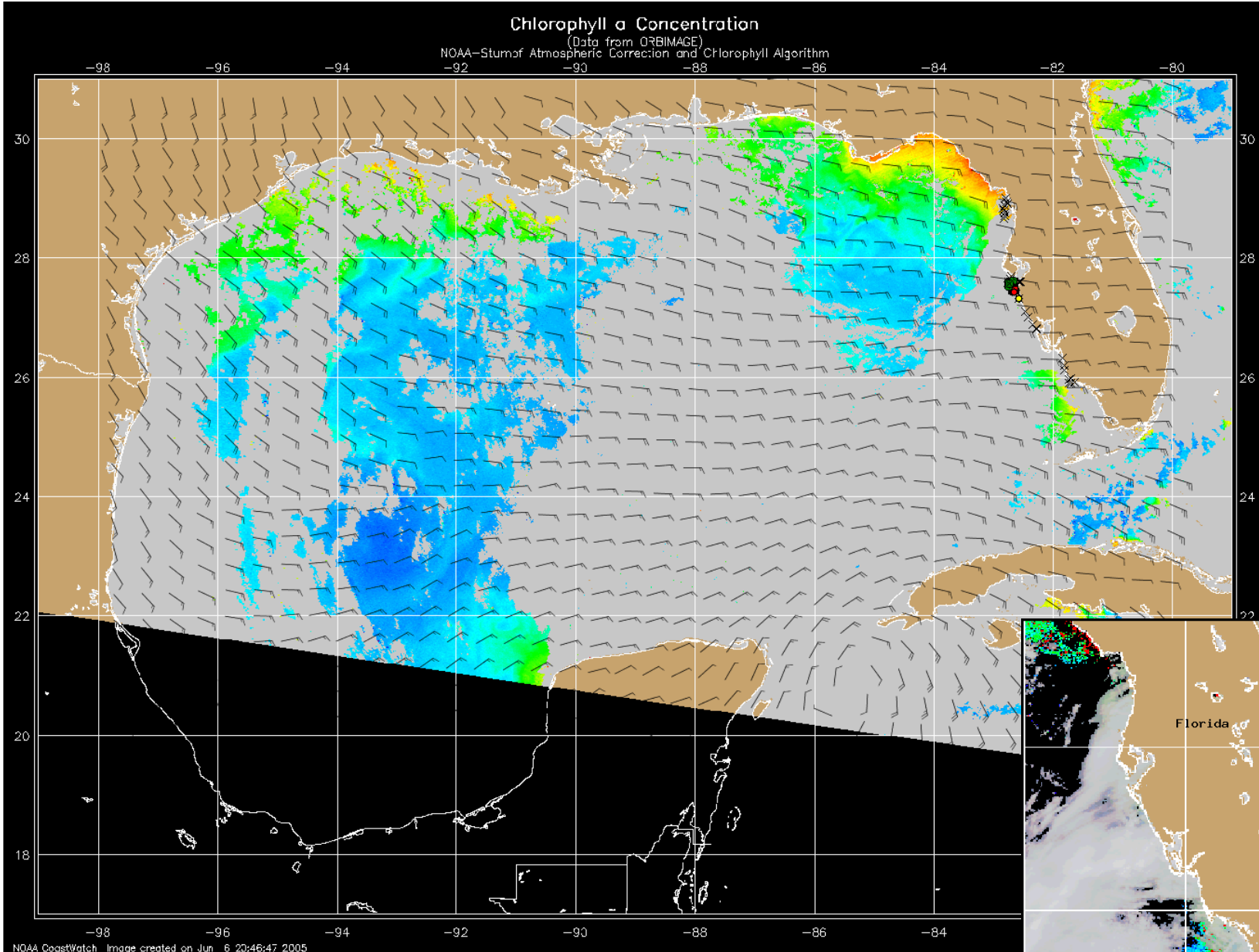


Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from May 15, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Easterly winds today at 10-15 knots (5-8 m/s) increasing tonight to 15-20 knots (8-10 m/s). Strong easterly winds on Friday at 20 knots (10 m/s), southeasterly winds on Friday night and Saturday at 15-20 knots (8-10 m/s), east winds on Sunday at 15 knots (8 m/s).



Chlorophyll concentration from satellite and forecast winds for June 10, 2005 06Z with cell concentration sampling data from May 15, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis and image for interpretation)

